

Claims

1. A method of inactivating a virus in a biological composition comprising contacting the composition with a compound having the formula β -Hal-(CH₂-CH₂-NH)_nH, wherein n is an integer between 2 and 5, inclusive, under viral inactivating conditions.

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2. The method of claim 1, wherein n is 2 or 3.

3. The method of claim 1, wherein said biological composition is a protein-containing composition.

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4. The method of claim 1, wherein said biological composition is a cell-containing composition.

5. The method of claim 1, wherein said virus is an enveloped virus.

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6. The method of claim 1, wherein said virus is a non-enveloped virus.

7. The method of claim 1, wherein said biological composition is selected from the group consisting of milk, saliva, semen, serum, and a placental extract.

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8. The method of claim 1, wherein said biological composition is selected from the group consisting of a product of a mammalian cell culture, a product of a non-mammalian cell culture, and a product produced by recombinant DNA technology.

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9. The method of claim 1, wherein said biological composition is selected from the group consisting of red blood cell concentrates, platelet concentrates, and leukocyte concentrates.

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10. The method of claim 1, wherein said biological composition comprises a protein selected from the group consisting of fibrinogen, factor VII, factor VIII, factor IX, factor X, immunoglobulins, prealbumin, retinol-binding protein, albumin, alpha-globulins, gamma-globulins, complement components, fibronectin, antithrombin III, hemoglobin, interferon, growth factors, plasminogen activator, growth hormone, insulin and erythropoietin.

11. The method of claim 10, wherein said protein is human protein.

12. The method of claim 1, wherein said biological composition is selected from the
5 group consisting of whole mammalian blood, purified blood proteins, blood plasma, platelet-rich plasma, a plasma concentrate, a precipitate from any fractionation of said plasma, a supernatant from any fractionation of said plasma, and a blood cryoprecipitate.

13. The method of claim 12, wherein said biological composition is whole mammalian
10 blood.

14. The method of claim 12, wherein said biological composition is blood plasma.

15. A compound having the formula $\beta\text{-Hal}-(\text{CH}_2\text{-CH}_2\text{-NH})_n\text{H}$, wherein n is an integer
15 between 2 and 5, inclusive.

16. The compound of claim 15, wherein n is 2 or 3.

17. A blood-collecting device comprising (i) a container for receiving blood or a blood
20 fraction; and (ii) a compound having the formula $\beta\text{-Hal}-(\text{CH}_2\text{-CH}_2\text{-NH})_n\text{H}$, wherein n is an integer between 2 and 5, inclusive.

18. The device of claim 1, wherein the container is a vacuum-containing tube.

19. The device of claim 1, wherein the container is a blood-receiving bag.
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20. A method of inactivating infectious animal viruses in a biological composition comprising contacting the composition with an ethyleneimine oligomer under viral inactivating conditions, wherein the biological composition is selected from the group
30 consisting of a mammalian cell culture or product therefrom, a non-mammalian cell culture or product therefrom, and a product produced by recombinant DNA technology.

21. The method of claim 20, wherein said ethyleneimine oligomer is ethyleneimine

dimer.

22. The method of claim 20, wherein said virus is an enveloped virus.

5 23. The method of claim 20, wherein said virus is a non-enveloped virus.